(54) Title: ROBUST SPEECH PROCESSING FROM NOISY SPEECH MODELS
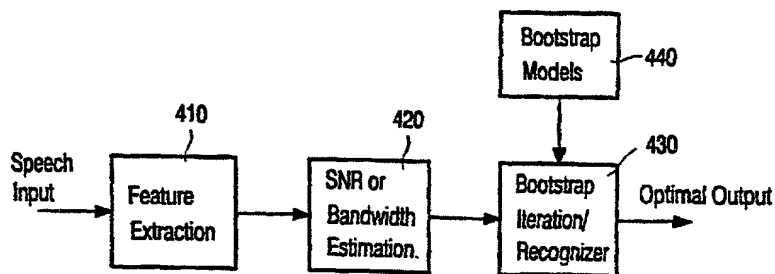
(57) Abstract: A speech processing system, such as a speech recognition or speech coding system, is capable for processing a degraded speech input signal. The system includes an input for receiving the degraded speech input signal. Means (420) are used for estimating a condition, such as the signal-to-noise ratio or bandwidth, of the received input signal. Means (430) are used means for selecting a processing model which corresponds to the estimated signal condition. The model may be retrieved from a storage (440) with models for different signal conditions. Means (430) are also operable to estimate an originally uttered speech signal based on the received input signal and to process the estimated original signal according to the selected model.

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ABSTRACT:

A speech processing system, such as a speech recognition or speech coding
system, is capable for processing a degraded speech input signal. The system includes an
input for receiving the degraded speech input signal. Means 420 are used for estimating a
condition, such as the signal-to-noise ratio or bandwidth, of the received input signal. Means

5   430 are used means for selecting a processing model which corresponds to the estimated
signal condition. The model may be retrieved from a storage 440 with models for different
signal conditions. Means 430 are also operable to estimate an originally uttered speech signal
based on the received input signal and to process the estimated original signal according to
the selected model.

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Fig. 4